REPORT DOCUMENTATION PAGE

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1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE 25 SEPTEMBER 1998	3. REPORT TYPE AND DATES COVERED FINAL TECHNICAL REPORT JUNE 1997- JUNE 1998

4. TITLE AND SUBTITLE
MERTS Field Research/Integrated Marine Technology Center- construction of building and purchase of related equipment

5. FUNDING NUMBERS
G-N00014-96-1-0873

6. AUTHOR(S)
John W. Wubben

7. PERFORMING ORGANIZATION NAMES(S) AND ADDRESS(ES)
Marine & Environmental Research & Training Station (MERTS)
c/o Clatsop Community College
1653 Jerome Ave
Astoria OR 97103

8. PERFORMING ORGANIZATION REPORT NUMBER
MERTS2-1997-98

9. SPONSORING / MONITORING AGENCY NAMES(S) AND ADDRESS(ES)

10. SPONSORING / MONITORING AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES

a. DISTRIBUTION / AVAILABILITY STATEMENT
Available to the public

12. DISTRIBUTION CODE

13. ABSTRACT (Maximum 200 words)

The MERTS Field Research/Integrated Marine Technology Center has been completed and equipped, providing a highly modern facility for the staging and support of research, as well as for industry-standard training in marine-related fabrication and maintenance. Sucessful project completion is evidenced by (1) the Certificate of Occupancy; (2) consulting engineer's certificate of compliance with plans, specifications, and the State Building Code; (3) final building inspection certificates indicating conformance to State electrical, plumbing, and mechnical codes; (4) complete list of equipment purchased; (5) documenting photos of completed building and selected equipment.

DTIC QUALITY INSPECTED 1

14. SUBJECT TERMS
MERTS Field Research/Integrated Marine Technology Center

15. NUMBER OF PAGES
28

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified	Unclassified	Unclassified	UL

Marine and Environmental Research and Training Station, Inc.
c/o Clatsop Community College

1653 Jerome Avenue ❖ Astoria, Oregon ❖ 97103 ❖ (503) 325-0910

MEMORANDUM

TO: Ronald A. De Marco, Ph. D., Head of Engineering, Materials, and Physical Sciences, S & T Dept., Office of Naval Research

FROM: John Wubben, Principal Investigator

SUBJECT: Final Technical Report for Grant #N00014-96-1-0873

DATE: September 21, 1998

This grant has been completed, as reflected in the following:

    1. Certificate of Occupancy (Attachment A)

    2. Certification by KPFF Consulting Engineers that the MERTS Field Research/Integrated Technology Center "was constructed in general compliance with the structural plans and specifications" (Attachment B).

    3. Certification by Braun Intertec that construction of the Merts Field Research/Integrated Technology Center "was in accordance with the approved plans and specifications of the State Building Code and Standards" (Attachment C).

4. Inspection report showing final electrical approval by the Building Codes Division of the Oregon Department of Consumer and Business Services (Attachment D).

5. Inspection report showing final plumbing and mechanical approval by the Building Codes Division of the Oregon Department of Consumer and Business Services (Attachment E).

6. Color photographs showing the completed building and representative items of equipment purchased (Attachment F).

7. Complete list of all equipment purchased (Attachment G).

Dr. De Marco, we appreciate your assistance and support in the completion of this grant project.

If I may provide additional information or clarification of this report, please contact me.

Merts/phaseII/final report/onr

CERTIFICATE OF OCCUPANCY

CITY OF ASTORIA

Date: 2/28/98

Building Location/Address: **6540 LIBERTY LANE**
MERTS PHASE II

Permit Number: C97-108

Owner Name: MERTS, Inc.

Owner Address: Rt. 5 Box 30-A
Astoria, OR   97103

Description of Construction: SCHOOL/EDUCATION FACILITY

Construction Type:	II-N Sprinklered	**Number of Stories:** 1
Occupancy Group:	B, H-4, A-3	**Floor Area:** 30,000 sq. ft.

CERTIFICATION IS HEREBY GIVEN THAT SAID BUILDING HAS BEEN INSPECTED FOR COMPLIANCE WITH THE OREGON STATE SPECIALTY CODES FOR GROUP AND DIVISION OF OCCUPANCY AND LAND USE REGULATIONS IN EFFECT AT THIS DATE AND MAY BE OCCUPIED AS ABOVE CLASSIFIED.

SIGNED: _Jason Bush_

kpff *Consulting Engineers*

December 3, 1997

Mr. Gregg Stewart
Mahlum & Nordfors Smith Gordon
1231 NW Hoyt Street, Suite 102
Portland, Oregon 97209

RE: Marine & Environmental Research & Training Center
        Astoria, Oregon
        Permit No. C97-108

Dear Gregg:

Based on the reports submitted to us to date, including the final summary report by Braun Intertec, dated December 3, 1997, as well as our own observations during our site visits, we believe that the Marine & Environmental Research & Training Center project was constructed in general compliance with the structural plans and specifications.

If you have any questions or need further information, please call.

Sincerely,

Sean T. Blaire

cc: Jason Bush, Mortier Engineering
        Al Jaques, Clatsop College

[STB.bw#5200conform.doc]

Post-it® Fax Note	7671	Date 12/3	# of pages ▶ 1
To Al Jaques		From Sean Blaire	
Co./Dept.		Co.	
Phone #		Phone #	
Fax # 325-7661		Fax #	

111 S.W. Fifth Avenue. Suite 2500   Portland. OR 97204-3629   (503) 227-3251   Fax (503) 227-7980

Seattle   Portland   San Francisco   Los Angeles   Phoenix   San Diego

BRAUN SM
INTERTEC

December 3, 1997

Mr. Al Jaques
Merts Inc.
c/o Clatsop Community College
Route 5, box 30A
Astoria, Oregon 97103

Dear Mr. Jaques:

Re: SPECIAL INSPECTION
     Field Research & Integrated Technology Center
     6540 Liberty Lane
     Astoria, Oregon
     Permit No.: C97-108

This is to certify that, in accordance with section 1701.3 of the State Building Code, we have performed Special Inspection of the following items:

1. Reinforced Concrete
2. Structural Steel, including welder's certifications, material verification, fabrication and field welding (excluding handrail)
3. Structural Masonry
4. Epoxy installations per ICBO report
5. Soils and Asphalt; compaction tests

All inspections and tests were performed and reported according to the requirements and to the best of my knowledge, the work was in accordance with the approved plans and specifications of the State Building Code and Standards.

Sincerely,

Eric Gessner, Manager
Construction Services

eg :syd

cc: Jason Bush, Mortier Engineering
       Greg Stewart, Mahlum & Nordfors Smith Gordon
       Brad Moyes, KPFF Consulting Engineers
       David Gould, David Evans & Associates
       Pat Mahoney, SD Deacon
       Chris Crother, SD Deacon

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Inspection Request & Report

Department of Consumer & Business Services
Building Codes Division

ATTACHMENT D

INSPECTION REQUEST

Date requested: _12-10-97_ Time: _____ Type of inspection: _Final_

☒ Electrical   ☐ Plumbing   ☐ Structural   ☐ Mechanical   ☐ Manufactured home

Permit no.: _CN7-547_ | Owner: _M.E.R.T._

Contractor: _Wadsworth_ | Job address: _RT 5 BX 30-A ast._

Directions: _____

_____

_____

Ready: _____ ☐ Mon ☐ Tues ☐ Wed ☐ Thurs ☐ Fri   ☐ a.m. ☐ mid ☐ p.m.

Call before coming? ☐ Yes ☐ No   Phone: _____

INSPECTION REPORT

Date inspected: _12-10-97_ | Time: _10:00_ | Type of inspection: _05_

☐ Unable to inspect   ☒ No corrections noted   ☐ Correction(s) expected within _____ days

Inspection report no.: _____   Correction(s) noted: (Pg. ____ of ____) _____

approved Final

 # Mechanical Lab GFCT

approved.

☐ Reinspection required prior to approval   ☐ OK to continue after corrections made

☐ Owner/Contractor sign below indicating all corrections made and return to inspector

Signature: _____

☐ Call for reinspection _____

Inspector: _John Allen_   Signature: _John Allen_

DEPARTMENT OF
CONSUMER
& BUSINESS
SERVICES

440-2525 (6/94/COM)

274466-96

Inspection Request & Report

Department of Consumer & Business Services
Building Codes Division

CITY OF ASTORIA

INSPECTION REQUEST

Date requested: 11-12-97	Time:	Type of inspection: PLUMBING FINAL HVAC FINAL

☐ Electrical ☒ Plumbing ☐ Structural ☒ Mechanical ☐ Manufactured home

Permit no.: ____C-97-108 Owner: MERTS PHASE II
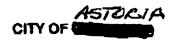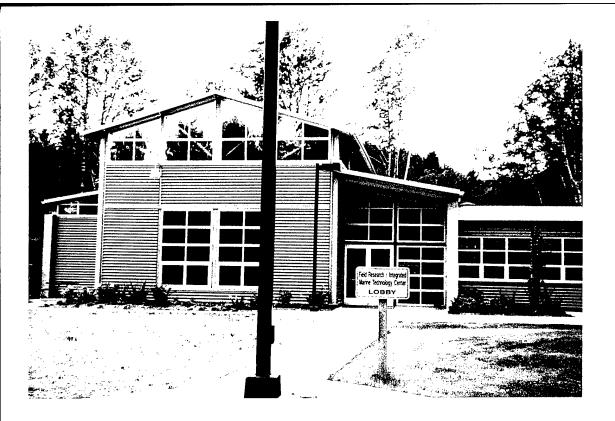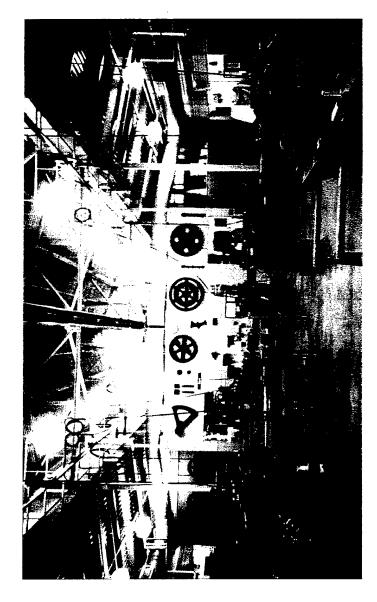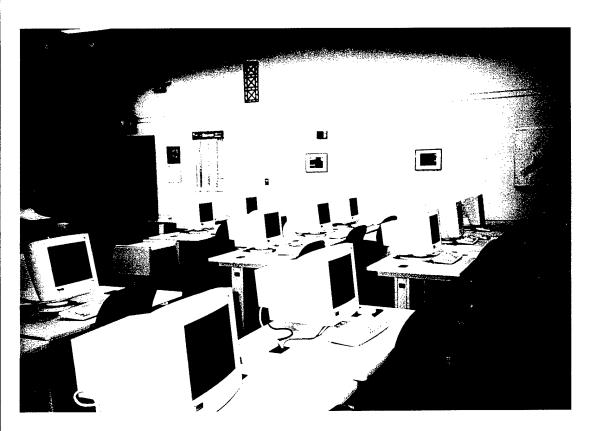
Contractor: SD DEACON Job address: 6540 LIBERTY LANE

Directions: _____

_____

Ready: YES ☒ Mon ☐ Tues ☐ Wed ☐ Thurs ☐ Fri ☐ a.m. ☐ mid ☐ p.m.

Call before coming? ☐ Yes ☐ No Phone: _____

INSPECTION REPORT

Date inspected: 11-17-97	Time: 11:00	Type of inspection: PLUMBING FINAL HVAC FINAL

☐ Unable to inspect ☒ No corrections noted ☐ Correction(s) expected within _____ days

Inspection report no.: _____ Correction(s) noted: (Pg. ____ of ____) _____

APPROVED

☐ Reinspection required prior to approval ☐ OK to continue after corrections made

☐ Owner/Contractor sign below indicating all corrections made and return to inspector

Signature: _____

☐ Call for reinspection _____

Inspector: Tom Breen Signature: _____

Field Research / Integrated
Marine Technology Center
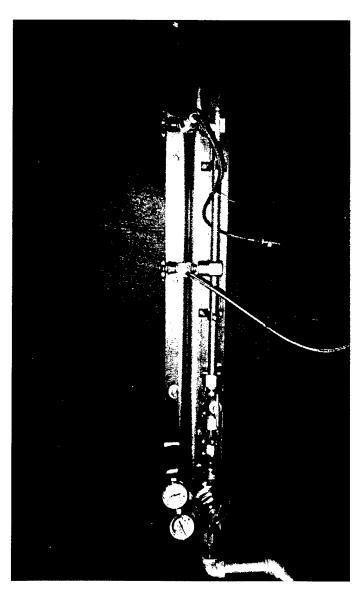LOBBY

Picture-Perfect Copies

DPX050
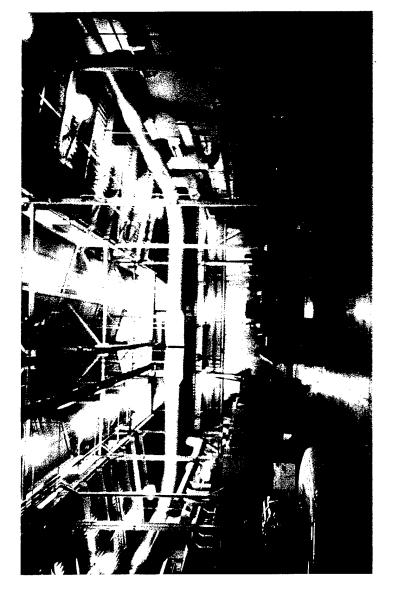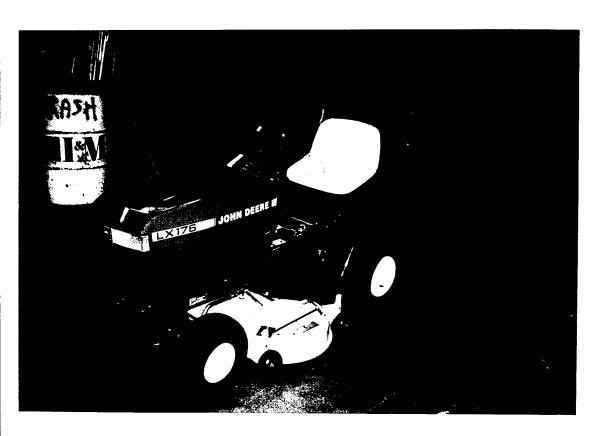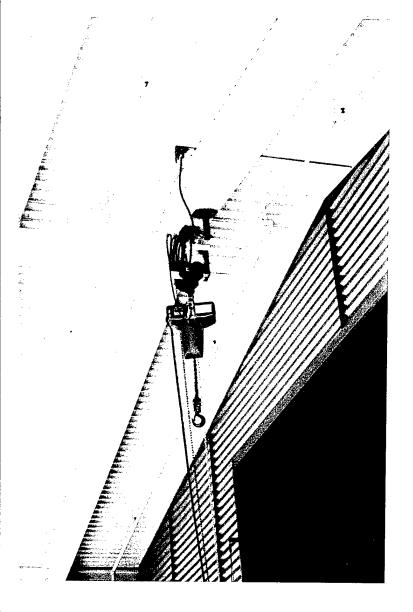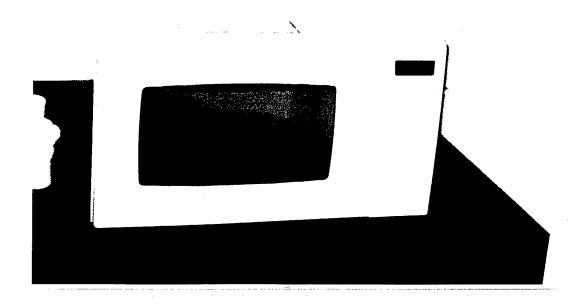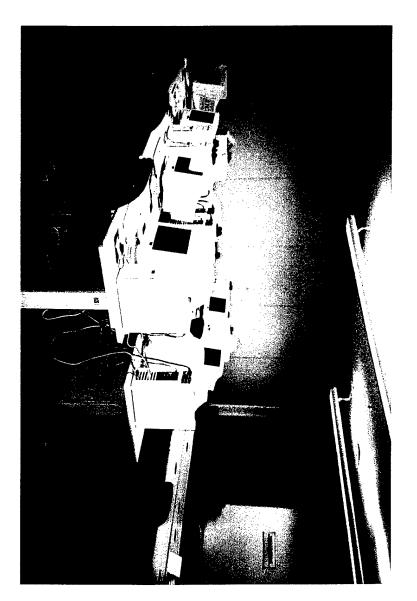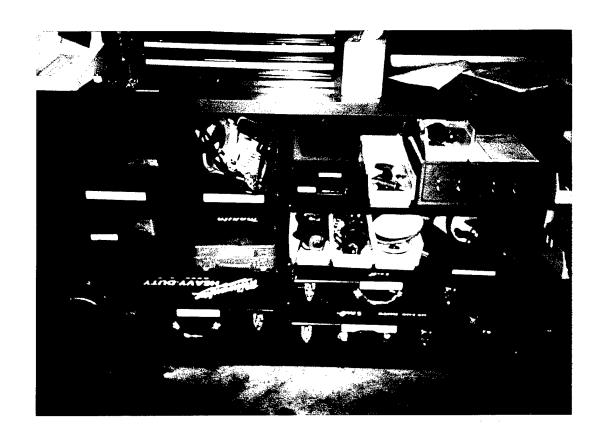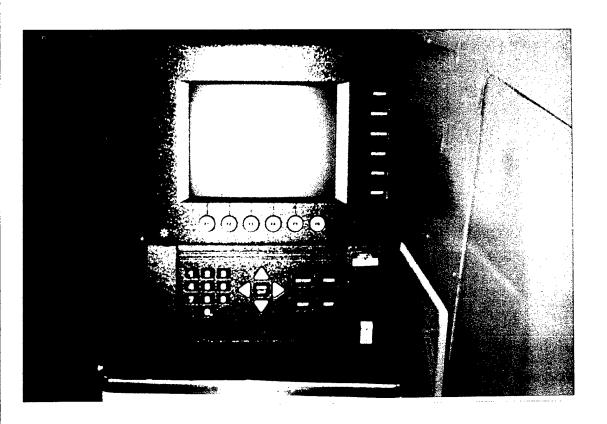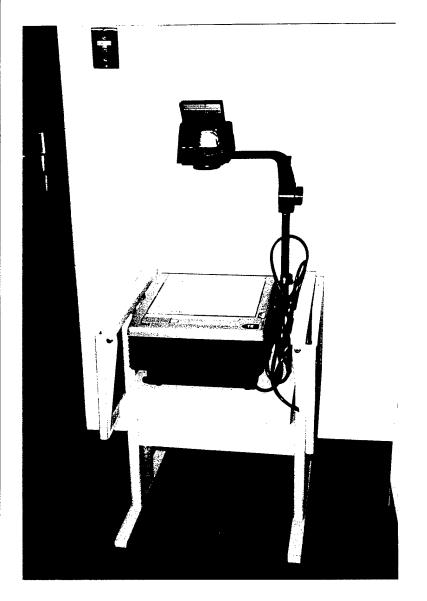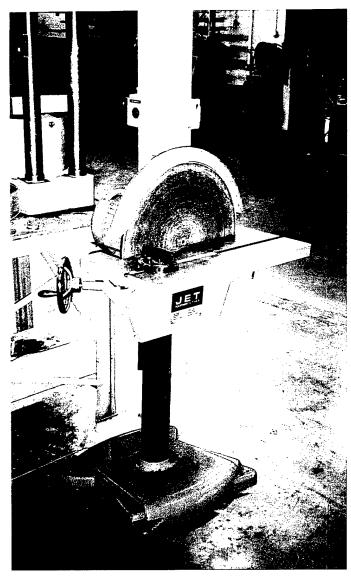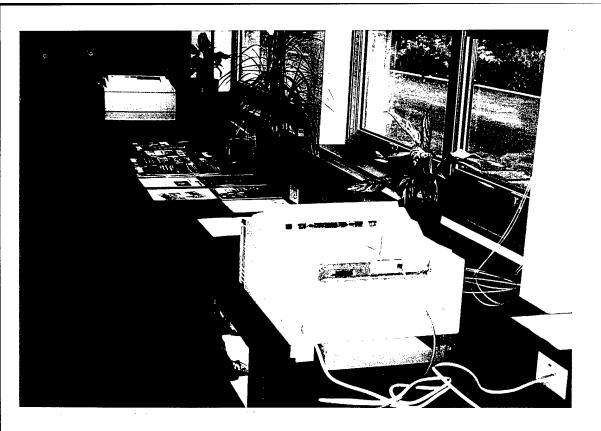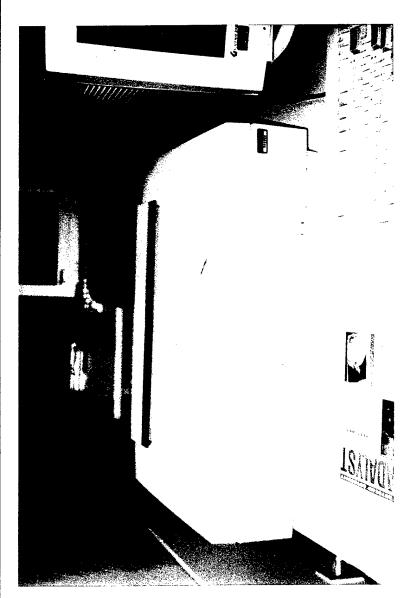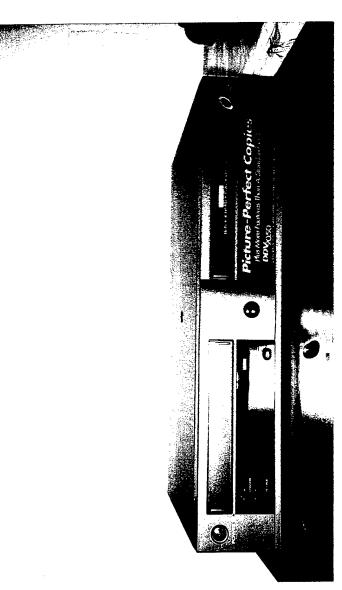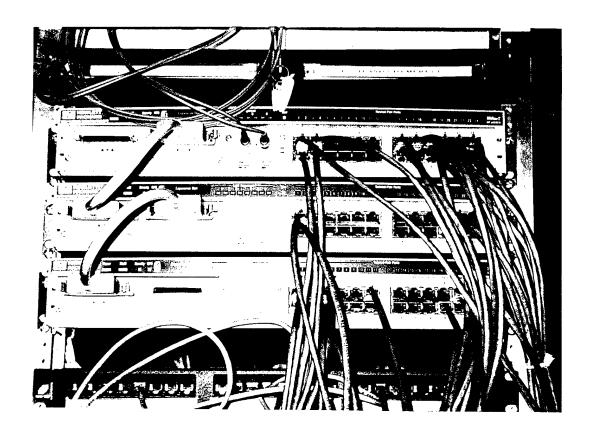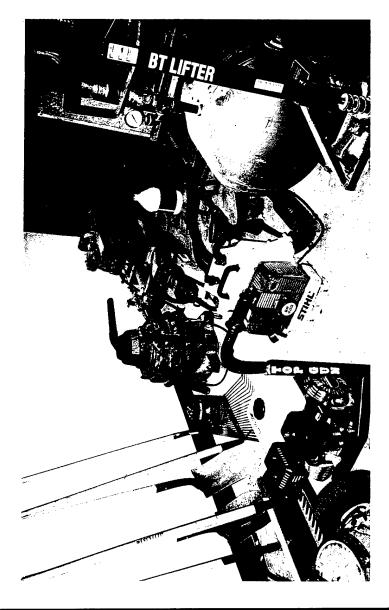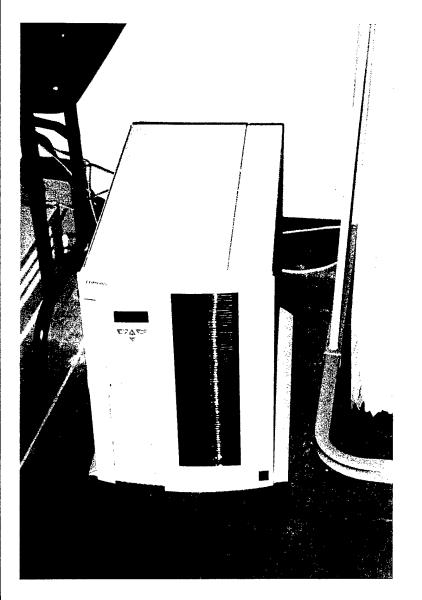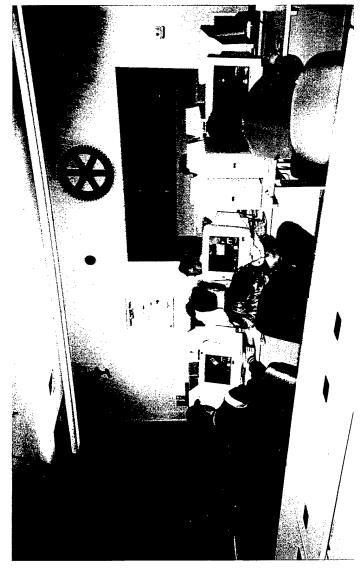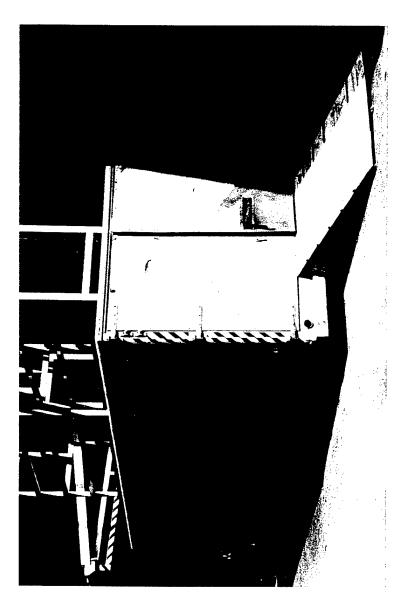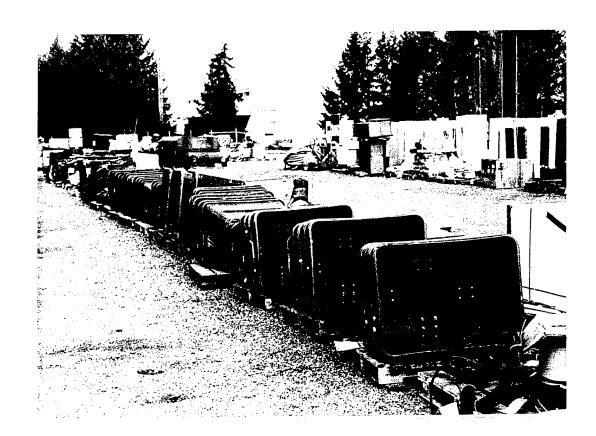
Tag #   Description

9601 DesignJet 750C+ Large Format E-Size Inkjet Plotter w/Jet Direct Card
9602 Comb. 11"X17" LaserJet 4V w/8MB Simm Chip, 10 Base T Card
9606 2000# Gas Powered Pressure Washer w/50' Hose&Wand
9609 Pentium P5-200 Mini-Tower w/Drives
9610 17" Vivitron Color Display Monitor
9611 101 Key-Keyboard
9612 Multimedia Speakers
9613 Pentium P5-200 Mini-Tower w/Drives
9614 17" Vivitron Color Display Monitor
9615 101 Key-Keyboard
9616 Multimedia Speakers
9617 Pentium P5-200 Mini-Tower w/Drives
9618 17" Vivitron Color Display Monitor
9619 101 Key-Keyboard
9620 Multimedia Speakers
9621 8 Port Hublet For OGI/MERTS Campus
9622 Comb. 11"X17" LaserJet 4V
9623 Electric Hoist 3 Ton Capacity
9624 Electric Trolley 3 Ton Capacity w/ 4 button control
9626 Pentium P5-200 Mini-Tower w/Drives
9627 17" Vivitron Color Display Monitor
9628 101 Key-Keyboard
9629 Multimedia Speakers
9630 Pentium P5-200 Mini-Tower w/Drives
9631 17" Vivitron Color Display Monitor
9632 101 Key-Keyboard
9633 Multimedia Speakers
9634 Pentium P5-200 Mini-Tower w/Drives
9635 17" Vivitron Color Display Monitor
9636 101 Key-Keyboard
9637 Multimedia Speakers
9638 Pentium P5-200 Mini-Tower w/Drives
9639 17" Vivitron Color Display Monitor
9640 101 Key-Keyboard
9641 Multimedia Speakers

Tag #   **Description**

9642 Pentium P5-200 Mini-Tower w/Drives
9643 17" Vivitron Color Display Monitor
9644 101 Key-Keyboard
9645 Multimedia Speakers
9646 Pentium P5-200 Mini-Tower w/Drives
9647 17" Vivitron Color Display Monitor
9648 101 Key-Keyboard
9649 Multimedia Speakers
9650 Pentium P5-200 Mini-Tower w/Drives
9651 17" Vivitron Color Display Monitor
9652 101 Key-Keyboard
9653 Multimedia Speakers
9654 Pentium P5-200 Mini-Tower w/Drives
9655 17" Vivitron Color Display Monitor
9656 101 Key-Keyboard
9657 Multimedia Speakers
9658 Pentium P5-200 Mini-Tower w/Drives
9659 17" Vivitron Color Display Monitor
9660 101 Key-Keyboard
9661 Multimedia Speakers
9662 Electric Plasma Arc Cutting Machine, 800 System
9669 24 Port HP Advanced Stack Hub
9670 T1 DSU/CSU
9671 TI Router
9675 Knnack Storage Chest
9676 BT 5,000 lb Pallet Jack
9687 Gas Manifold
9688 Gas Manifold
9689 Gas Manifold
9696 9,000 lb Capacity Two Post Lift
9697 12,000 lb Capacity Four Post Alignment Lift
9698 8 Ton Equipment Moving Dollies (w/case)
9710 Network Server
9711 14" Color Monitor
9712 101 Key Standard Keyboard

Tag #	Description
9713	Server System Battery Backup
9715	Video / Data Projector w/Case
9721	Jet Direct Printer Hub
9722	Jet Direct Printer Hub
9723	Advance Stack Mini 8 Port Hub
9724	Advance Stack Mini 8 Port Hub
9725	Advance Stack Mini 8 Port Hub
9726	Advance Stack Mini 8 Port Hub
9729	Advance Stack Mini 8 Port Hub
9730	Advance Stack Mini 8 Port Hub
9731	Advance Stack 24 Port Hub
9732	Advance Stack 24 Port Hub
9733	Advance Stack 24 Port Hub
9734	Data & Telephone Cable Termination Tool Kit
9735	LaserJet Printer
9736	Wire Feed Welder w/MT250SG Aluminum Spool gun
9737	Suitcase Wire Feeder w/30' Stretch & XR30-A Gun
9738	20" Circular Disc Sander
9740	2 Ton Electric Crane
9753	Automotive Analying Tool
9754	CD-Rom Based Shop Repair Manuals
9755	Portable Engine Anayler
9756	Pentium GP5-200 Mini-Tower w/Drives
9757	17" Color Display Monitor
9758	101 Key-Keyboard
9759	Pentium GP5-200 Mini-Tower w/Drives
9760	17" Color Display Monitor
9761	101 Key-Keyboard
9762	Pentium GP5-200 Mini-Tower w/Drives
9763	17" Color Display Monitor
9764	101 Key-Keyboard
9765	Pentium GP5-200 Mini-Tower w/Drives
9766	17" Color Display Monitor
9767	101 Key-Keyboard
9768	Pentium GP5-200 Mini-Tower w/Drives

Tag #   **Description**

9769   17" Color Display Monitor
9770   101 Key-Keyboard
9771   Pentium GP6-300 Mini-Tower w/Drives
9772   17" Color Display Monitor
9773   101 Key-Keyboard
9774   Pentium GP6-300 Mini-Tower w/Drives
9775   17" Color Display Monitor
9776   101 Key-Keyboard
9777   Pentium GP6-300 Mini-Tower w/Drives
9778   17" Color Display Monitor
9779   101 Key-Keyboard
9780   Pentium GP6-300 Mini-Tower w/Drives
9781   101 Key-Keyboard
9782   21" Color Display Monitor
9783   Pentium GP6-300 Mini-Tower w/Drives
9784   17" Color Display Monitor
9785   101 Key-Keyboard
9786   Pentium GP6-300 Mini-Tower w/Drives
9787   17" Color Display Monitor
9788   101 Key-Keyboard
9789   Pentium GP6-300 Mini-Tower w/Drives
9790   17" Color Display Monitor
9791   101 Key-Keyboard
9792   Pentium GP6-300 Mini-Tower w/Drives
9793   17" Color Display Monitor
9794   101 Key-Keyboard
9795   Pentium GP6-300 Mini-Tower w/Drives
9796   17" Color Display Monitor
9797   101 Key-Keyboard
9798   Pentium GP6-300 Mini-Tower w/Drives
9799   17" Color Display Monitor
9800   101 Key-Keyboard
9801   Pentium GP6-300 Mini-Tower w/Drives
9802   17" Color Display Monitor
9803   101 Key-Keyboard

Tag #	Description
9804	Pentium GP6-300 Mini-Tower w/Drives
9805	17" Color Display Monitor
9806	101 Key-Keyboard
9807	Pentium GP6-300 Mini-Tower w/Drives
9808	17" Color Display Monitor
9809	101 Key-Keyboard
9810	Pentium GP6-300 Mini-Tower w/Drives
9811	17" Color Display Monitor
9812	101 Key-Keyboard
9813	Pentium GP6-300 Mini-Tower w/Drives
9814	17" Color Display Monitor
9815	101 Key-Keyboard
9816	Pentium GP6-300 Mini-Tower w/Drives
9817	17" Color Display Monitor
9818	101 Key-Keyboard
9819	Pentium GP6-300 Mini-Tower w/Drives
9820	17" Color Display Monitor
9821	101 Key-Keyboard
9822	Pentium GP6-300 Mini-Tower w/Drives
9823	17" Color Display Monitor
9824	101 Key-Keyboard
9825	Pentium GP6-300 Mini-Tower w/Drives
9826	17" Color Display Monitor
9827	101 Key-Keyboard
9838	B Size Flat Bed Scanner
9844	38" Riding Mower W/Bagging Attachment
9850	1 1/2" Capacity Rotary Hammer w/case
9854	Electric Plasma Arc Cutting Machine
9855	Electric Plasma Arc Cutting Machine
9856	Digital Camera
10018	Wire Feed Welder w/MT250SG Aluminum Spool gun
10019	Wire Feed Welder w/MT250SG Aluminum Spool gun
10020	Wire Feed Welder w/MT250SG Aluminum Spool gun
10034	Electric Magnetic Portable Drill Press
10037	Exterior Mail Box

Tag #   **Description**

       Voice Mail System
       Educational Network labor
       T-1 Connection labor
       Telemetry to site project

9674 8K 1990 Hyster H80XL Forklift
9681 27' Enclosed Storage Van, Military Surplus Property